

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-30. Cancelled.

31. (Previously Presented) A mobile computing device, comprising:
a memory;
a display configured to display in more than one display mode;
a display controller coupled to the display and comprising an internal display memory;
a processor coupled to the memory and the display controller, wherein at least one of the processor and display controller is configured to operate display logic configured to change the display mode,
wherein in a first display mode the display controller is configured to retrieve a first amount of information from the memory to be displayed on the display, and
in a second display mode the display controller is configured to retrieve a second amount of information smaller than the first amount of information from the internal display memory to be displayed on the display; and
wherein both the first display mode and the second display mode may be changed to by the display logic while the device is being actively used by a user.

32. (Previously Presented) The mobile computing device of Claim 31, wherein the first amount of information is sufficient for displaying rich color and high resolution on the display and the second, smaller amount of information is for displaying low color and low resolution on the display.

33. (Previously Presented) The mobile computing device of Claim 32, wherein in the second mode only textual types of graphical information are displayed.

34. (Previously Presented) The mobile computing device of Claim 31, wherein the processor is configured in the first mode to operate a first application stored in memory and in the second mode to operate a second application stored in memory.

35. (Previously Presented) The mobile computing device of Claim 31, wherein the display logic is configured to change the display mode based on requirements dictated by an operating system running on the processor.

36. (Previously Presented) The mobile computing device of Claim 31, wherein in the second mode the memory is powered down.

37. (Previously Presented) The mobile computing device of Claim 31, wherein the internal display memory comprises random access memory.

38. (Previously Presented) The mobile computing device of Claim 31, wherein the mobile computing device comprises a wireless data communications device, wherein the processor is configured to synchronize data with a computer.

39. (Previously Presented) The mobile computing device of Claim 31, further comprising a cellular telephone.

40. (Previously Presented) A display controller, comprising:
an internal display memory;
display logic configured in a first display mode to retrieve a first amount of information from a memory to be displayed on a display and in a second display mode to retrieve a second amount of information smaller than the first amount of information from the internal display memory to be displayed on the display;
wherein the controller is configured to display an image associated with an application in the second display mode using a same size amount of a display as when displaying an image in the first display mode.
41. (Previously Presented) The display controller of Claim 40, wherein the first amount of information is sufficient for displaying rich color and high resolution on the display and the second, smaller amount of information is for displaying low color and low resolution on the display.
42. (Previously Presented) The display controller of Claim 40, wherein the display controller is configured to change modes based on logic operating on a processor coupleable to the display controller.
43. (Previously Presented) The display controller of Claim 40, wherein the second mode is a low power mode.
44. (Previously Presented) The display controller of Claim 40, wherein the internal display memory comprises random access memory.

45-47. (Cancelled)

48. (Previously Presented) A method of refreshing a display, comprising:
in a first display mode, retrieving a first amount of information from a first memory device to be displayed on the display, and
in a second display mode, retrieving a second amount of information smaller than the first amount of information from a second memory device to be displayed on the display;
wherein in the second mode only textual types of graphical information are displayed.

49-53. (Cancelled)

54. (Previously Presented) The device of Claim 31, wherein the second amount of information comprises an image having at least 8-bit color.

55. (Previously Presented) The device of Claim 31, wherein an image displayed based on the second amount of information has a same resolution as an image displayed based on the first amount of information.

56. (Previously Presented) The device of Claim 31, wherein the second display mode is configured to display images at a lower resolution than the first display mode.

57. (Previously Presented) The controller of Claim 40, wherein in the second mode only textual types of graphical information are displayed.

58. (Previously Presented) The device of Claim 31, wherein the display logic configured to change the display mode is configured to select the first display mode or the second display mode based on a characteristic of an application running on the processor.

59. (Previously Presented) The method of Claim 58, wherein in the second mode the memory is powered down.

60. (Previously Presented) The device of Claim 58, wherein the application is a first application, and the display logic is further configured to change a display mode from one of the first and second display modes to another of the first and second display modes based on a characteristic of a second application running on the processor.

61. (Previously Presented) The method of Claim 58, wherein the display logic is configured to select the first display mode or the second display mode based on the characteristic of the application when the application is launched on the processor.

62. (Previously Presented) The method of Claim 58, wherein the characteristic comprises a display requirement of the application.